

THAT WHICH IS CLAIMED IS:

1. An electrical power generating apparatus comprising:
a housing;
an electrical generator within said housing;
a turbine for driving said electrical generator; and
a step-up transformer within said housing and connected to said electrical generator.
2. An electrical power generating apparatus according to Claim 1 further comprising a plurality of insulated copper conductors connecting said electrical generator and said step-up transformer.
3. An electrical power generating apparatus according to Claim 1 wherein said electrical generator has at least a 50-megawatt output.
4. An electrical power generating apparatus according to Claim 1 further comprising a barrier wall within said housing and between said electrical generator and said step-up transformer.
5. An electrical power generating apparatus according to Claim 1 wherein said housing comprises at least one access door.
6. An electrical power generating apparatus according to Claim 1 further comprising a fire extinguishing system within said housing.
7. An electrical power generating apparatus according to Claim 1 wherein said step-up transformer has an output voltage of at least 69 KV.
8. An electrical power generating apparatus according to Claim 1 wherein said turbine comprises a gas turbine.
9. An electrical power generating apparatus according to Claim 1 wherein said turbine comprises a steam turbine.

10. An electrical power generating apparatus according to Claim 1 further comprising a station power output between said electrical generator and said step-up transformer for providing station power.

11. An electrical power generating apparatus according to Claim 1 wherein said step-up transformer comprises a station power tap for providing station power.

12. An electrical power generating apparatus comprising:
a housing;
an electrical generator within said housing and having an output of at least about 50-megawatts; and
a step-up transformer within said housing and connected to said electrical generator.

13. An electrical power generating apparatus according to Claim 12 further comprising a plurality of insulated copper conductors connecting said electrical generator and said step-up transformer.

14. An electrical power generating apparatus according to Claim 12 further comprising a barrier wall within said housing and between said electrical generator and said step-up transformer.

15. An electrical power generating apparatus according to Claim 12 wherein said housing comprises at least one access door.

16. An electrical power generating apparatus according to Claim 12 further comprising a fire extinguishing system within said housing.

17. An electrical power generating apparatus comprising:
a housing;
an electrical generator within said housing;
a step-up transformer within said housing and connected to said electrical generator; and

a barrier wall within said housing and between said electrical generator and said step-up transformer.

18. An electrical power generating apparatus according to Claim 17 further comprising a plurality of insulated copper conductors connecting said electrical generator and said step-up transformer.

19. An electrical power generating apparatus according to Claim 17 wherein said housing comprises at least one access door.

20. An electrical power generating apparatus according to Claim 17 further comprising a fire extinguishing system within said housing.

21. A method for making an electrical power generating apparatus, the method comprising:
positioning an electrical generator within a housing; and
connecting a step-up transformer to the electrical generator within the housing.

22. A method according to Claim 21 wherein connecting the step-up transformer further comprises connecting the step-up transformer without using an isolated phase bus.

23. A method according to Claim 21 wherein connecting the step-up transformer further comprises using a plurality of insulated copper conductors to connect the electrical generator and the step-up transformer.

24. A method according to Claim 21 wherein the electrical generator has at least a 50-megawatt output.

25. A method according to Claim 21 further comprising installing a barrier wall within the housing between the electrical generator and the step-up transformer.

26. A method according to Claim 21 further comprising installing a fire extinguishing system within the housing.

27. A method according to Claim 21 further comprising installing a station power output between the electrical generator and the step-up transformer for providing station power.

28. A method according to Claim 21 wherein the step-up transformer comprises a station power tap for providing station power.